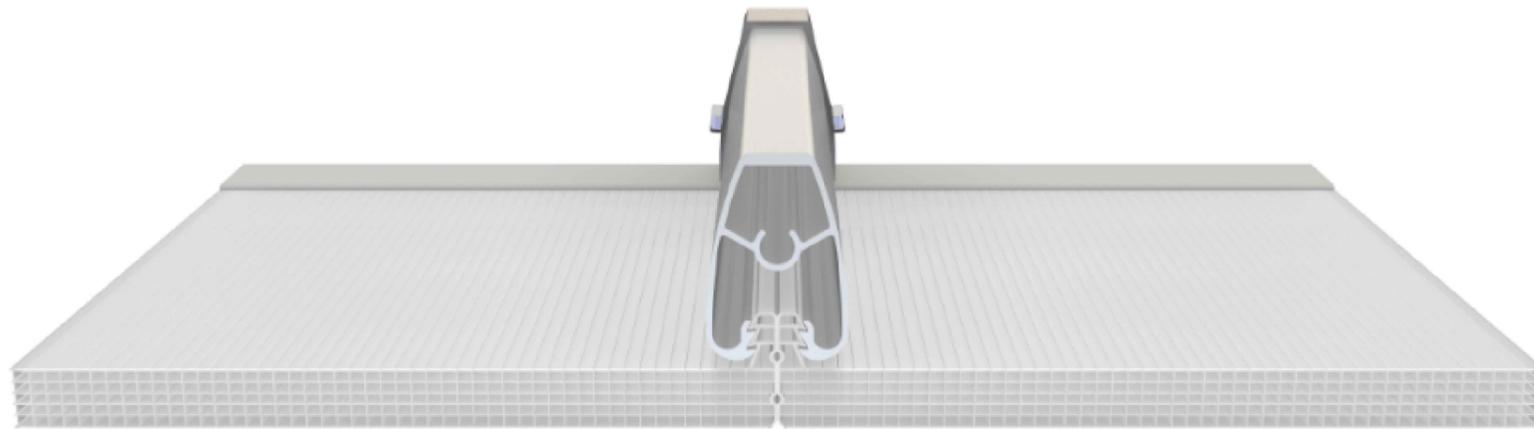


# DANPAL SOLARSPACE ROOF SYSTEM

with DANPALON<sup>®</sup> Multicell Panels



## GENERAL NOTES

### DRAWING INFORMATION:

This drawing set is only applicable to the standard Danpal SolarSpace Roof System using Danpalon<sup>®</sup> Multicell panels and related accessories. © Copyright 2020 Danpal Australia Pty Ltd.

### ROOF PITCH:

Danpal roof systems require a fall for water runoff and drainage. The sub-structure must be designed so as to incorporate a recommended minimum 5° pitch. (An absolute minimum pitch of 3° is required.)

Should a lower pitch be required, please consult Danpal Australia to discuss options.

### FLASHINGS AND SEALANT:

Any flashings shown are indicative only. Suitable flashings should be designed and installed to ensure water runoff is adequately controlled and directed to suitable drainage provisions.

If required, only use neutral cure non-acetic silicone that is polycarbonate compatible.

Flashings and sealant are not supplied by Danpal.

### SUB-STRUCTURE:

The sub-structure must be suitably designed by an engineer to withstand expected wind loads and should be designed to provide suitable support to the Danpal System, ensuring that Danpal maximum spans are not exceeded.

### WARRANTY:

All Danpal materials are covered against defects by a 10 Year Commercial Limited Warranty. For further details or for project-specific warranty variations, please consult Danpal Australia.

**DANPAL<sup>®</sup> STANDARD DETAILS ARE INTENDED ONLY AS A GUIDE FOR PROJECT-SPECIFIC ENGINEERING DOCUMENTATION BY AN APPROPRIATELY QUALIFIED ENGINEER.**



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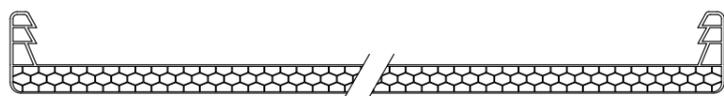
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**TITLE PAGE AND GENERAL NOTES**  
Drawing Series:  
**DANPAL SOLARSPACE ROOF STANDARD DETAILS**

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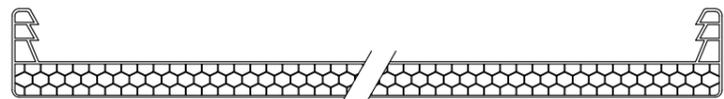
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## DANPALON® PANEL OPTIONS



**DP8 - 8mm Honeycomb**  
(600mm width)  
Weight: 1900gsm  
Stocked in Clear, Opal, Reflective Ice and Reflective Grey  
Other colours available to order



**DP10 - 10mm Honeycomb**  
(600mm width)  
Weight: 2666gsm  
Stocked in all Reflective, Standard and Premium colours  
Other colours available to order



**DP12 - 12mm Multicell**  
(900mm width)  
Weight: 2840gsm  
Stocked in Softlite Ice and Reflective Grey  
Other colours and 600mm width available to order

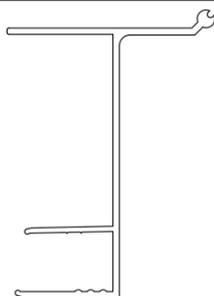


**DP16 - 16mm Multicell**  
(600mm or 1040mm width)  
Weight: 3666gsm  
Stocked in Clear (1040mm only), Opal (1040mm only), Ice, Softlite Ice (1040mm only) and Reflective Grey  
Other colours and 900mm width available to order



**3DLite - 22mm Louvred Panel**  
(600mm width)  
Weight: 3100gsm  
Stocked in White  
Other colours available to order

## WALL / FASCIA MOUNTING PROFILES

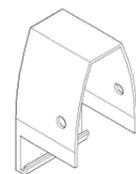


**DPAUPHD - Aluminium Upper Pivot**  
Stocked In Mill Finish Only  
Anodising and Powdercoating available to order  
Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels  
Suitable for Streamline (DPACSL) and Fin-and-Ball (DPACFB) Connectors  
Suitable for Aluminium Fascia Wall Mount (DPAFWM) only

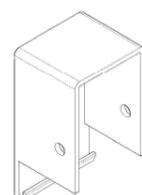


**DPAFWM - Aluminium Fascia Wall Mount**  
Stocked In Mill Finish Only  
Anodising and Powdercoating available to order  
Suitable for Aluminium Upper Pivot (DPAUPHD) only

## CONNECTOR CAPS



**DPCECSL - Connector End Cap**  
Stocked In Alloy Finish  
Powdercoating available to order  
Suitable for Streamline (DPACSL) and Fin-and-Ball (DPACFB) Connectors



**DPCEC60-150 - Connector End Cap**  
Stocked In Alloy Finish  
Powdercoating available to order  
Suitable for 60mm to 150mm Connectors (DPAC60 - 150)

## FASTENERS



**WS16/22/35 - Wafer Screw 16mm / 22mm / 35mm**

**TEK25 - Hex Head Screw 25mm**

Self-Drilling screws suitable for Metal and Timber (specify substrate when ordering)  
Zinc-Galv. and Stainless Steel options available to order

## GASKET



**R10 - Rubber Gasket**  
Suitable for all Connectors

## CONNECTOR OPTIONS

**DPACSL**  
Streamline  
Connector  
Weight: 1 kg/m

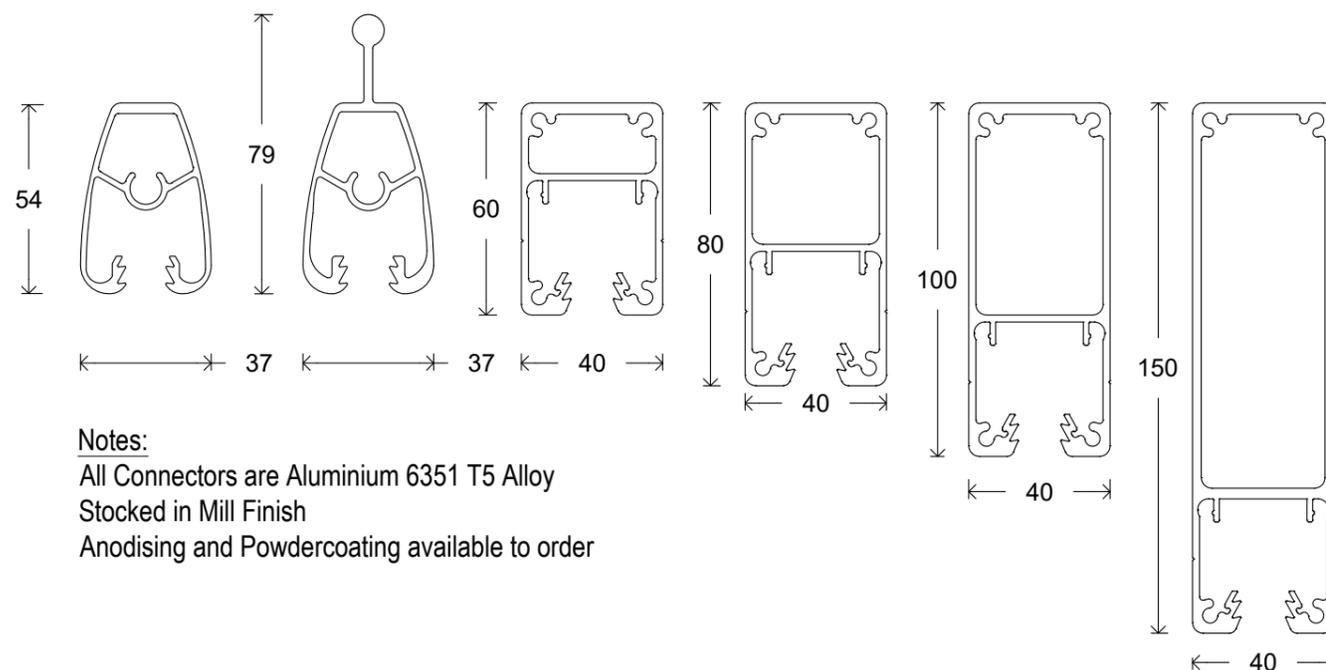
**DPACFB**  
Fin-and-Ball  
Connector  
Weight: 1.4 kg/m

**DPAC60**  
60mm  
Connector  
Weight: 1.7 kg/m

**DPAB80**  
80mm  
Connector  
Weight: 1.9 kg/m

**DPAC100**  
100mm  
Connector  
Weight: 2.3 kg/m

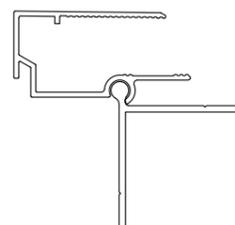
**DPAC150**  
150mm  
Connector  
Weight: 3 kg/m



### Notes:

All Connectors are Aluminium 6351 T5 Alloy  
Stocked in Mill Finish  
Anodising and Powdercoating available to order

## OTHER PROFILES AND ACCESSORIES



**DPAPEC + DPALP**  
Pivot End Cap + Lower Pivot

DPAPEC Stocked in Clear Anodised Finish, DPALP Stocked in Mill Finish

Powdercoating available to order  
Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels  
(\*16mm variant shown)



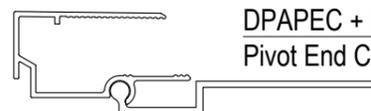
**DPAECLW - Aluminium Light Weight End Cap**

Stocked in Mill Finish  
Anodising and Powdercoating available to order  
Suitable for 10mm and 16mm Danpalon® Panels  
(\*16mm variant shown)



**DPAFS - Aluminium F-Section**

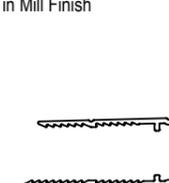
Stocked in Mill and Clear Anodised Finish  
Powdercoating available to order  
Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels  
(\*16mm variant shown)



**DPAPEC + DPALPR**  
Pivot End Cap + Lower Roof Pivot

DPAPEC Stocked in Clear Anodised Finish, DPALPR Stocked in Mill Finish

Powdercoating available to order  
Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels  
(\*16mm variant shown)



**DPAFSL - Aluminium Long Leg F-Section**

Stocked in Mill Finish  
Anodising and Powdercoating available to order  
Suitable for 16mm Danpalon® Panels



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Sheet Title:  
**COMPONENT DETAILS**

Drawing Series:  
**DANPAL SOLARSPACE ROOF STANDARD DETAILS**

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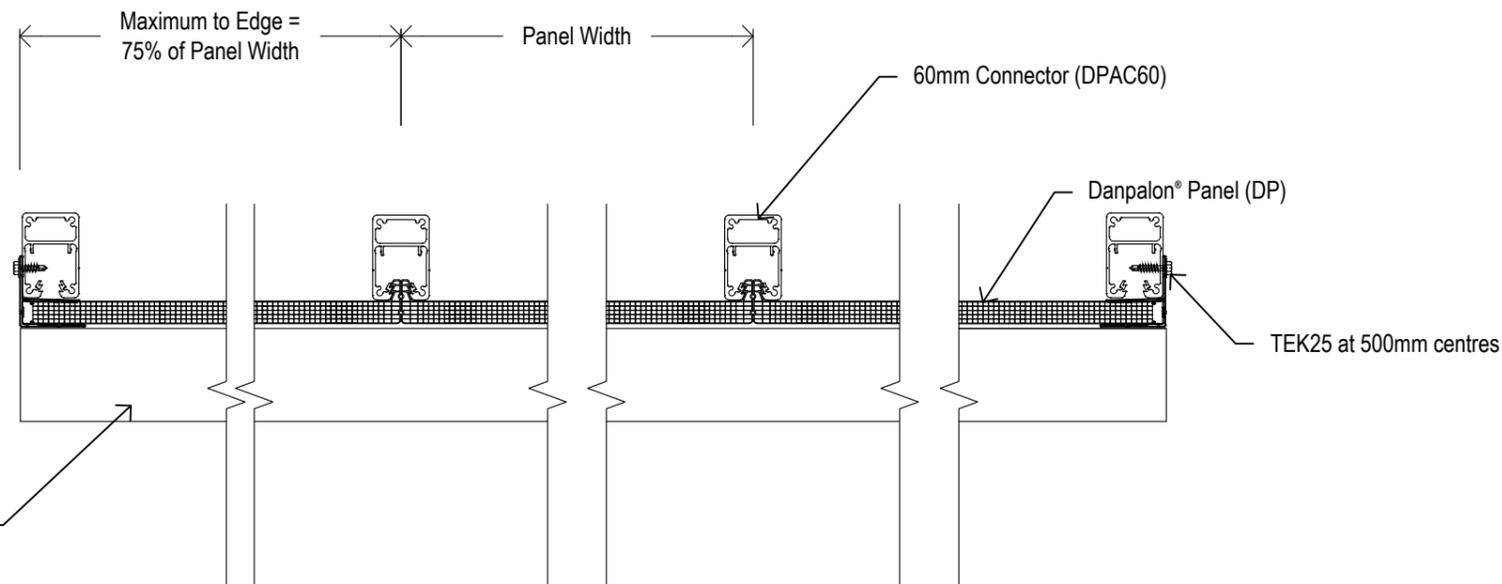
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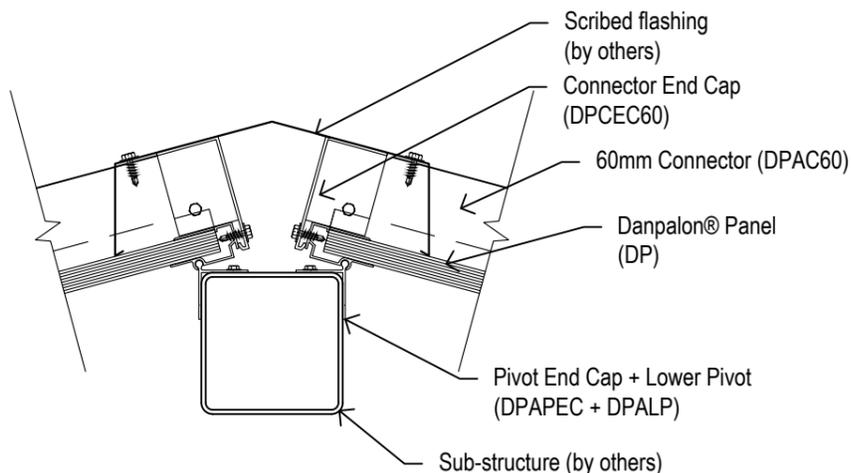
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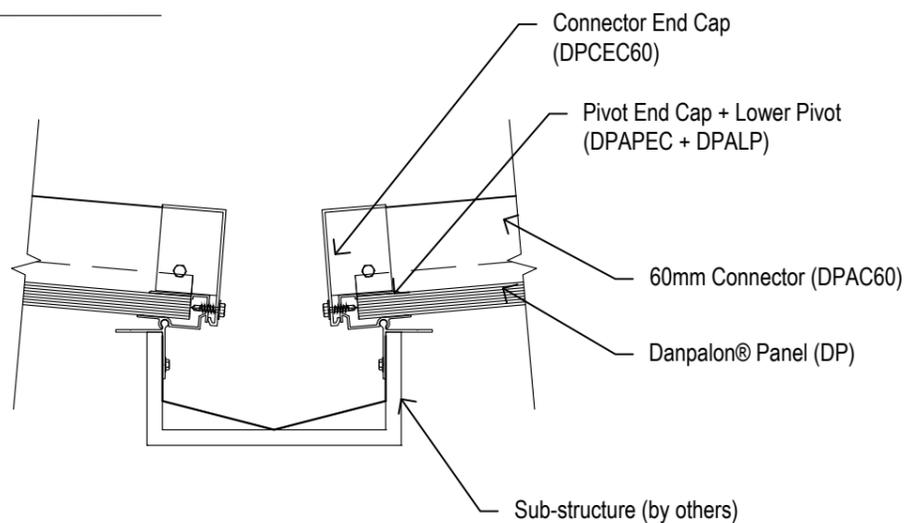
PANEL SET OUT	
Panel Thickness	Panel Width
8mm	600mm
10mm	600mm
12mm	900mm
16mm	1040mm
3DLite	600mm



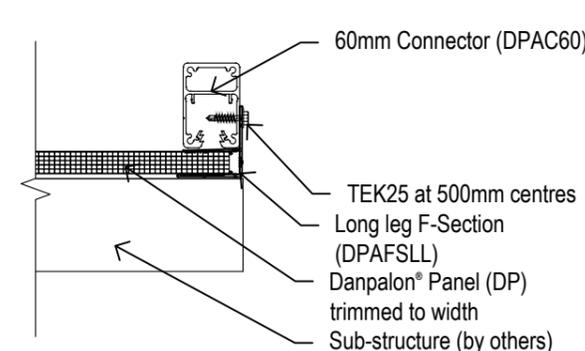
○ CROSS SECTION - TYPICAL DETAILS



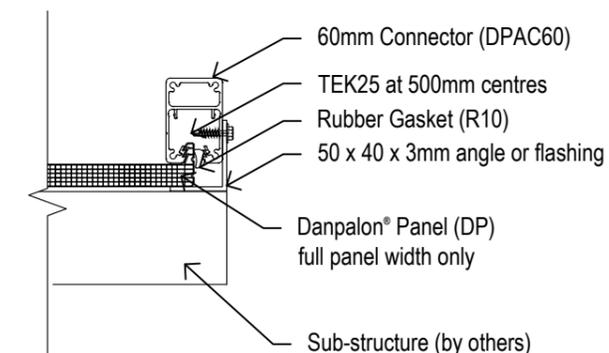
○ HIP DETAIL



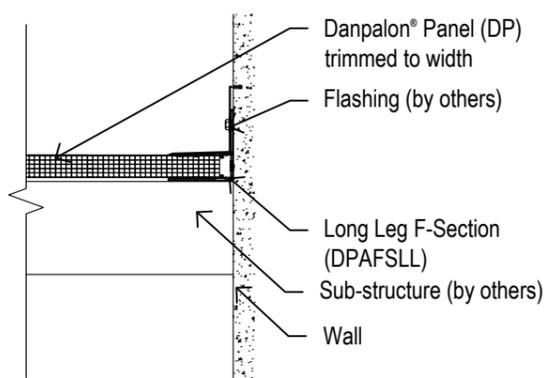
○ VALLEY DETAIL



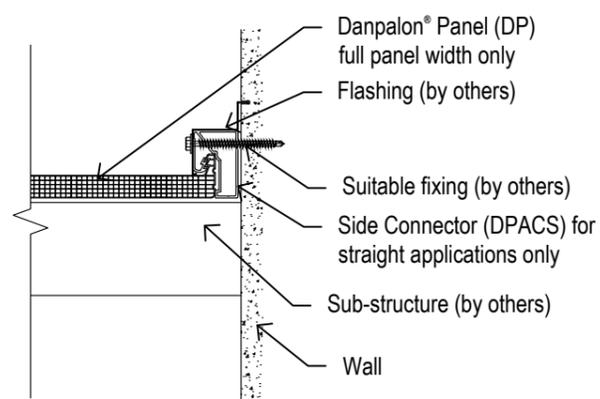
○ CUT PANEL EDGE DETAIL



○ FULL PANEL EDGE DETAIL



○ CUT PANEL WALL DETAIL



○ FULL PANEL WALL DETAIL



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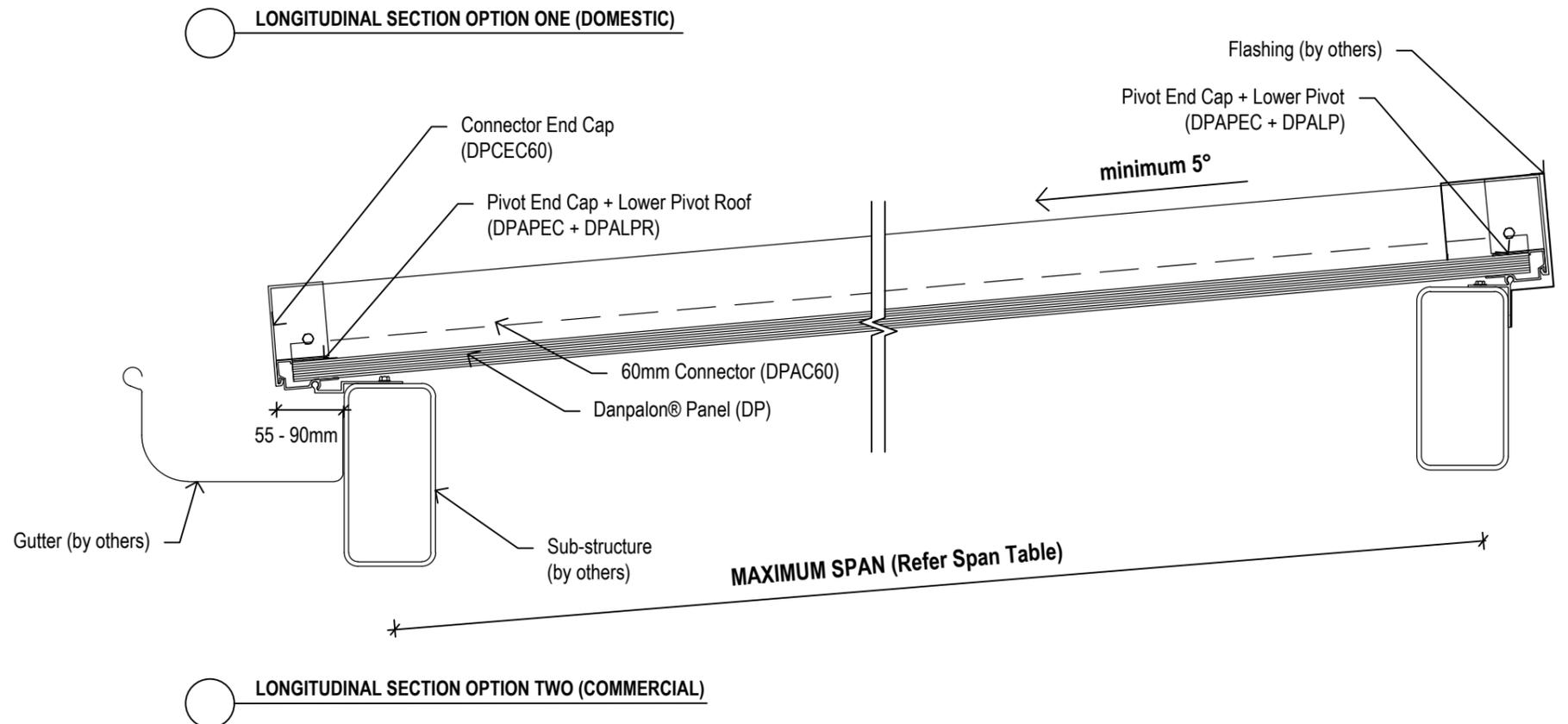
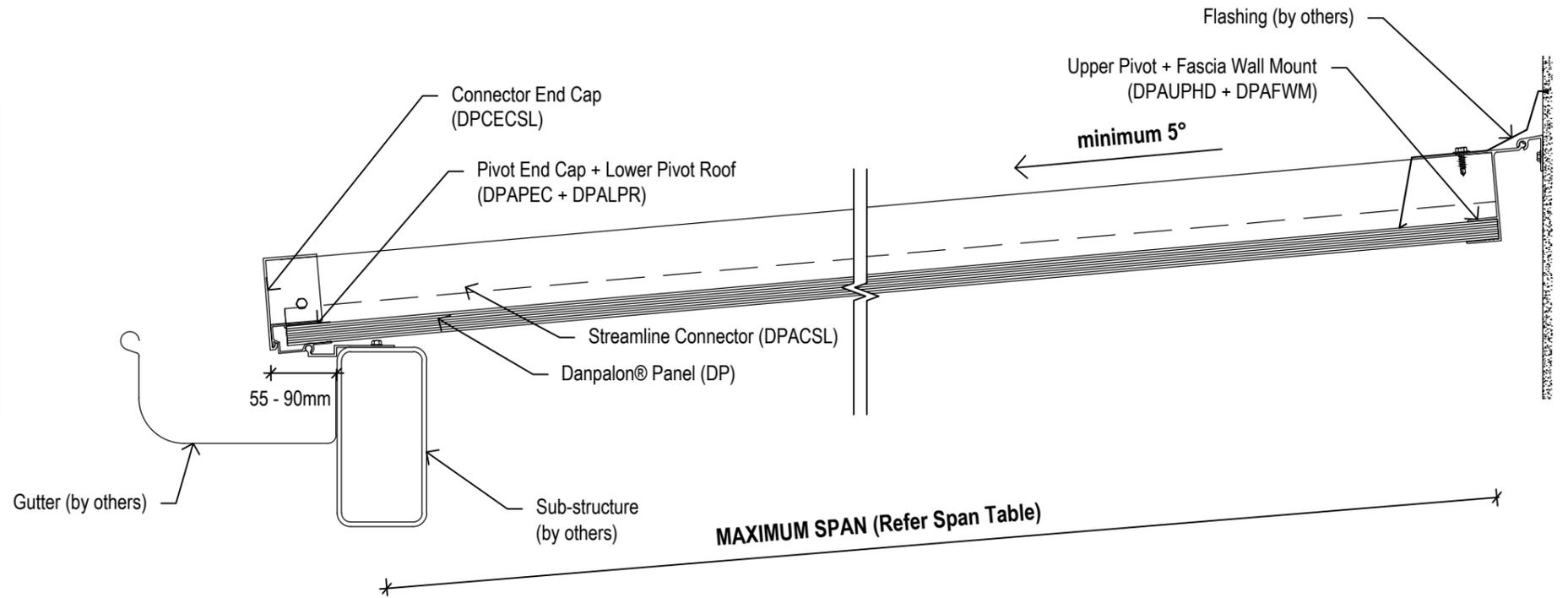
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SPAN TABLE					
Connector	Danpalon® Panel				
	8mm	10mm	12mm	16mm	3DLite
Streamline (DPACSL)	2400	2400	2350	2250	2400
Fin-and-Ball (DPACFB)	4100	4100	3650	3450	4100
60mm (DPAC60)	4050	4050	3600	3500	4050
80mm (DPAC80)	5000	5000	4400	4200	5000
100mm (DPAC100)	5800	5800	5200	5000	5800
150mm (DPAC150)	8800	8800	7700	7400	8800

Above figures are in millimetres (mm).  
 Design load 1 kPA (ultimate) 0.7 kPA (serviceable). Deflection criteria span / 50.  
 Curved spans vary according to desired radius.  
 Please consult Danpal Australia for any other situations and more information.



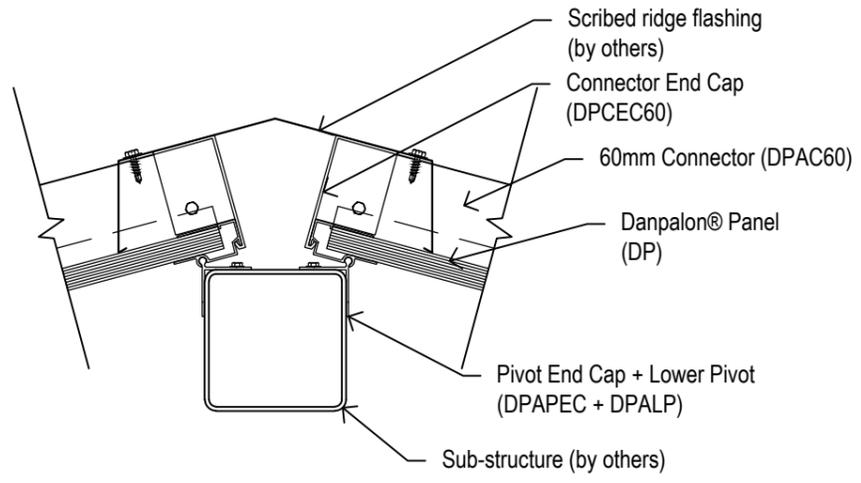
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Sheet Title:  
**LONGITUDINAL SECTION DETAILS**  
 Drawing Series:  
**DANPAL SOLARSPACE ROOF STANDARD DETAILS**

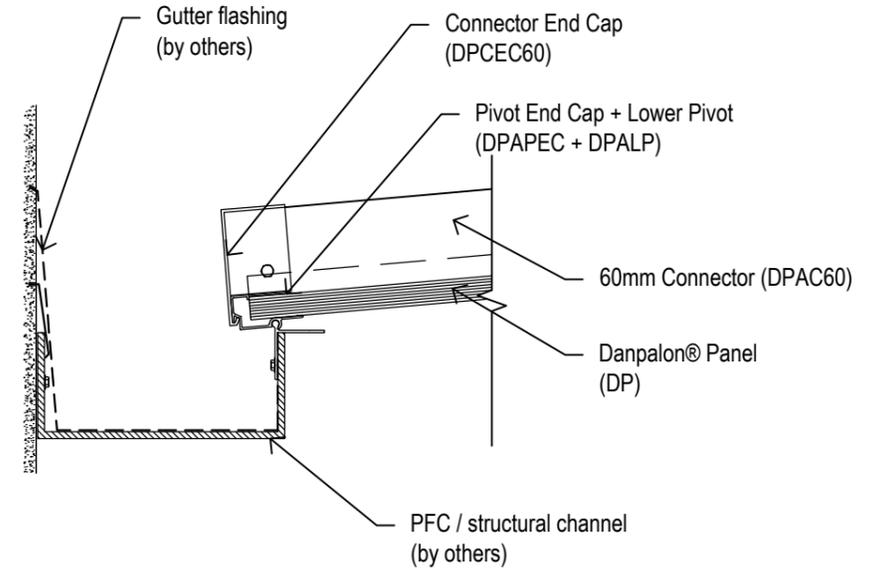
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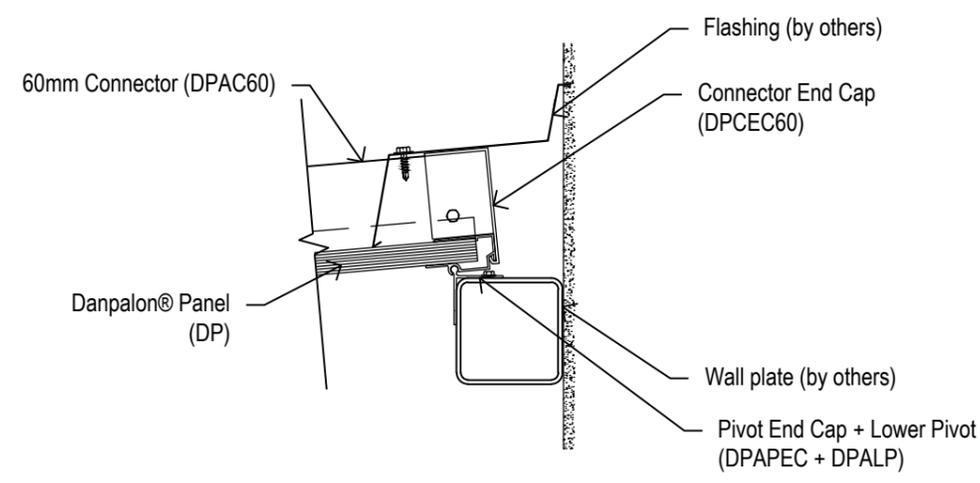
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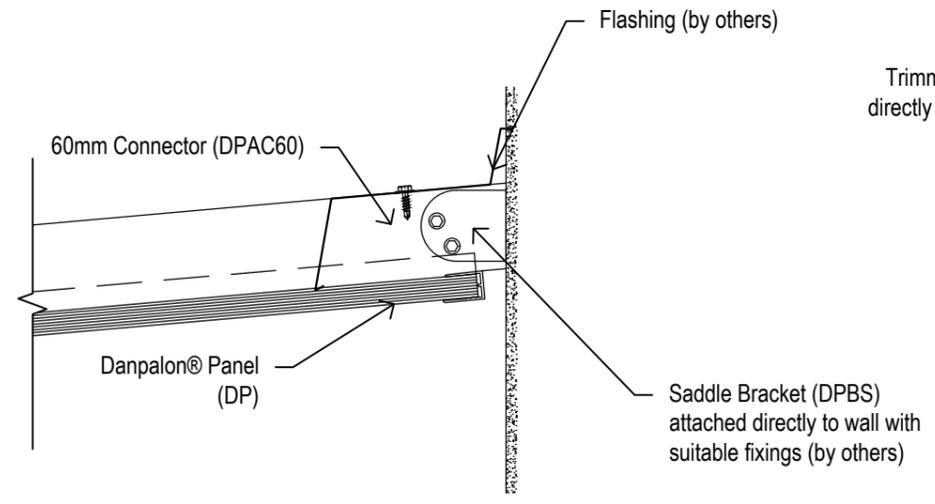
○ RIDGE DETAIL



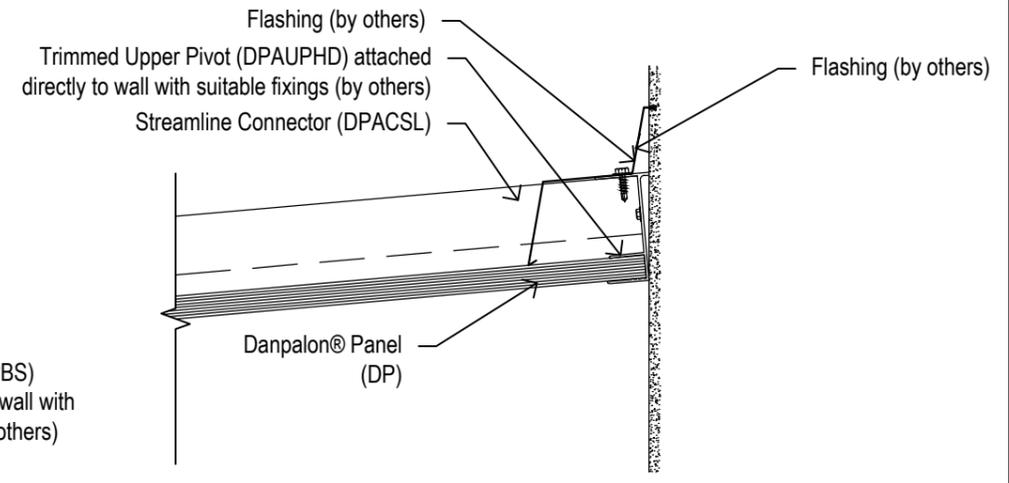
○ STRUCTURAL GUTTER DETAIL



○ HEAD WALL MOUNT DETAIL



○ ALTERNATIVE COMMERCIAL HEAD WALL MOUNT DETAIL



○ ALTERNATIVE DOMESTIC HEAD WALL MOUNT DETAIL



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